

### Abstract

The invention relates to a field device (1) for monitoring and/or  
5 determining a process variable of a medium, wherein the process  
variable preferably is fill level, viscosity or density of the medium. The  
field device includes: an oscillatable unit (10); a driving/receiving unit (11),  
which excites the oscillatable unit (10) to oscillate, or which receives the  
oscillations of the oscillatable unit (10), as the case may be; and a  
10 control/evaluation unit (12), which controls the oscillations of the  
oscillatable unit (10), or which evaluates the oscillations of the  
oscillatable unit (10). The invention includes that the control/evaluation  
unit (12) produces an accretion alarm, when the oscillation frequency (f)  
of the oscillations of the oscillatable unit (10) falls below an adjustable  
15 limit value ( $G$ ;  $G_{\text{Minimum}}$ ;  $G_{\text{Maximum}}$ ). The limit value ( $G$ ;  $G_{\text{Minimum}}$ ;  $G_{\text{Maximum}}$ )  
is determinable and/or calculable at least from measured and/or  
calculated dependencies of the oscillation frequency on process  
conditions and/or on the process variable to be monitored and/or  
determined.

20

(Fig. 1)